## WHAT IS CLAIMED IS:

1. An in-flight communications system, comprising:

an aircraft cabin envelope including a wireless LAN;

an ACARS security envelope that is in communication with the wireless LAN via an airborne communications management unit (CMU); and

a ground based security envelop that is in communication with a ground-based segment of the ACARS security envelope.

- 2. The system of claim 1, further comprising a personal digital assistant (PDA) having a wireless modem that operates in conjunction with the wireless LAN.
- 3. The system of claim 1, wherein the wireless LAN supports a plurality of wireless devices.
- 4. The system of claim 1, wherein the ACARS security envelope comprises a datalink service provider that is linked to the ground based security envelope.
- 5. The system of claim 1, wherein an authorized user operates within the aircraft cabin security envelope.
- 6. The system of claim 5, wherein the authorized user communicates with an operations center within the ground-based security envelope.

- 7. The system of claim 5, wherein the authorized user communicates with flight deck personnel on the same aircraft.
- 8. The system of claim 5, wherein the authorized user communicates with another Air Marshal on the same aircraft.
  - 9. An in-flight communications system, comprising:
- a personal digital assistant (PDA) device having wireless communications capabilities; an aircraft cabin wireless local area network (LAN), the PDA device being operable to be in communication with the wireless LAN;
- a communications management unit (CMU) associated with the wireless LAN and operable to send and received data via ACARS; and

an operations center operable to receive data generated by the PDA, transmitted over the wireless LAN and passed to the operations center via ACARS.

- 10. The system of claim 9, wherein the CMU provides PDA generated data to flight deck personnel.
- 11. The system of claim 9, wherein the PDA device is programmed with predetermined screens.
- 12. The system of claim 11, wherein the screens are arranged to have tap and send functionality.

- 13. The system of claim 9, wherein the PDA device is operable to communicate with another PDA device over the wireless LAN.
  - 14. A method of sending a message from an air borne aircraft, comprising: composing a message on a PDA device;

transmitting the message from the PDA device over an aircraft cabin wireless network to a communications management unit (CMU);

encrypting the message to create an encrypted message; sending the encrypted message via an ACARS network; receiving the encrypted message at a datalink service provider; forwarding the encrypted message to an operations center; and decrypting the encrypted message to obtain the message.

- 15. The method of claim 14, wherein the step of composing a message comprises using predefined message structures.
- 16. The method of claim 14, wherein the wireless network is based on a protected IEEE 802.11(b) protocol.
  - 17. The method of claim 14, wherein the step of encrypting is performed by the CMU.

- 18. The method of claim 14, wherein the message is displayed for the flight deck personnel.
- 19. The method of claim 14, further comprising communicating with other PDA devices on the same aircraft.
- 20. The method of claim 14, further comprising sending a message from the operations center to a PDA device in an airborne aircraft.
  - 21. A method of sending a message from an air borne aircraft, comprising: composing a message on a PDA device; encrypting the message to create an encrypted message;

transmitting the encrypted message from the PDA device over an aircraft cabin wireless network to a communications management unit (CMU);

sending the encrypted message via an ACARS network; receiving the encrypted message at a datalink service provider; forwarding the encrypted message to an operations center; and decrypting the encrypted message to obtain the message.

22. The method of claim 21, wherein the step of composing a message comprises using predefined message structures.

- 23. The method of claim 21, wherein the wireless network is based on an IEEE 802.11(b) protocol.
  - 24. The method of claim 21, wherein the step of encrypting is performed by the PDA.
- 25. The method of claim 21, further comprising communicating with other PDA devices on the same aircraft.
- 26. The method of claim 21, further comprising sending a message from the operations center to a PDA device in an airborne aircraft.
  - 27. An in-flight communications system, comprising:

a personal digital assistant (PDA) device having wireless communications capabilities;

an aircraft cabin wireless local area network (LAN), the PDA device being operable to be in communication with the wireless LAN;

a communications module associated with the wireless LAN and operable to send and receive data via an air-to-ground communications system; and

an operations center operable to receive data generated by the PDA, transmitted over the wireless LAN and passed to the operations center via the air-to-ground communications system.

28. The system of claim 27, wherein the communications module comprises a communications management unit (CMU).

- 29. The system of claim 27, wherein the air-to-ground communications system comprises an ACARS.
- 30. The system of claim 27, wherein the communications module provides PDA generated data to flight deck personnel.
- 31. The system of claim 27, wherein the PDA device is programmed with predetermined screens.
- 32. The system of claim 31, wherein the screens are arranged to have tap and send functionality.
- 33. The system of claim 27 wherein the PDA device is operable to communicate with another PDA device over the wireless LAN.